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AGRICULTURAL MEMORANDUM NO 488

AREAS WITH A MODERATE SENSITIVITY TO DRAINAGE IMPROVEMENT

L P Smith

Following the analysis of Ag Mem 487, 10 of the 24 sample stations can be regarded as having a moderate response in regard to spring sowing dates to improved drainage.

They lie in the following counties

Kent	Shropshire	Dorset
East Riding	Surrey	Gloucester
Northampton	Nottingham	
Berkshire	Hampshire	

As a mean value, the reductions in yield loss and hence the gain in yield are:-

For a 7 day Schedule	1.6%
10 day Schedule	2.3%
14 day Schedule	3.7%

which are about 2/3rds of the gains to be expected in the high sensitivity areas.

Full details are given in the Table.

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell
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Areas with a Moderate Sensitivity to Drainage Improvement

7-day Schedules

Percentage Loss of Yield (1949-68)

		Drainage Standard				
		A	B	C	D	Index
Maidstone	(Kent)	1.1	2.6	5.0	7.1	2.0
Holme	(E.R.)	1.5	2.8	5.0	6.4	1.7
Wellingborough	(Northants)	1.7	3.5	5.4	7.5	1.9
Reading	(Berks)	1.3	2.5	4.5	5.9	1.6
Newport	(Salop)	2.5	3.5	4.9	5.6	1.1
Wisley	(Surrey)	1.9	2.9	4.9	6.3	1.3
Nottingham		1.2	2.2	3.7	5.7	1.5
Andover	(Hants)	2.0	3.0	4.7	5.6	1.3
Wimborne	(Dorset)	1.9	3.5	4.9	6.4	1.5
Cheltenham	(Glos)	3.3	4.6	7.2	8.5	1.8
MEAN		1.84	3.11	5.02	6.50	1.59

10-day Schedules

Maidstone	2.4	4.5	7.6	10.6	2.8
Holme	2.7	4.3	7.4	10.0	2.5
Wellingborough	3.0	5.1	7.5	11.0	2.6
Reading	2.3	4.0	6.6	9.4	2.4
Newport	3.4	5.2	7.4	10.8	2.4
Wisley	3.0	4.4	6.9	9.2	2.1
Nottingham	2.2	3.6	5.3	8.4	2.0
Andover	3.2	4.5	7.0	9.2	2.0
Wimborne	3.0	4.6	6.7	9.5	2.2
Cheltenham	4.4	5.8	8.8	10.7	2.0
MEAN	2.96	4.60	7.12	9.88	2.33

14-day Schedules

Maidstone	4.6	7.4	12.3	17.8	4.4
Holme	4.8	6.7	12.4	17.2	4.3
Wellingborough	5.0	7.8	12.3	16.0	3.7
Reading	4.0	6.3	10.4	15.6	3.9
Newport	5.5	8.0	12.4	17.7	4.1
Wisley	4.8	6.3	11.3	15.2	3.6
Nottingham	3.5	6.1	8.6	14.0	3.4
Andover	5.1	7.5	12.1	15.5	3.6
Wimborne	4.6	7.2	10.6	13.8	3.1
Cheltenham	6.1	8.4	11.9	14.6	2.9
MEAN	4.80	7.17	11.43	15.74	3.71